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Claims:

Cancel all claims of record and substitute new claims 28 – 35

28. [20] An illuminating device providing controlled illumination in an environment to be illuminated comprising:
- a) a plurality of light sources emanating light, said light sources having a respective spatial light intensity distribution of substantial directionality and said light sources having a respective spectral wavelength characteristic; 5
 - b) a structure having a geometry where said structure has apparatus for correlating said geometry to said environment to be illuminated;
 - c) a first light source mounted to said structure such that said spatial light intensity distribution has a directionality respective to said geometry; 10
 - d) one or more additional light sources mounted to said structure such that said light source's spatial light intensity distribution has a directionality respective to said geometry differing from the directionality of the first; and 15
 - e) where said directionality which effects the mixing, adding and distribution of emanating light is determined according to the environment to be illuminated
- so as to produce a new, more useful and precise illuminating characteristic such as providing a uniform illumination at points non-equidistant from the illuminating device. 20
29. [21] The illuminating device of claim 20 is a lighting application oriented luminaire designed according to principles of lighting practice, providing said controlled illumination intensity, spectrum, and spatial distribution of intensity and spectrum, suited to the specific lighting application, comprising a plurality of light sources capable, when operating in combination, of providing the correct intensity, spectrum, and spatial distribution of intensity and spectrum for the environment to be illuminated. 25 30